

**Notice of Allowability**

Exr. Andf.  
Ricky Mack  
5/2/05

Application No.

10/720,340

Examiner

Ricky L. Mack

Applicant(s)

KIM ET AL.

Art Unit

2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed 4/11/05.
2. ☒ The allowed claim(s) is/are 2-4, 6-9, 11-16 and 18-31.
3. ☒ The drawings filed on 25 November 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 0505.
7. ☒ Examiner's Amendment Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Ricky L. Mack  
Primary Examiner  
Art Unit: 2873

Art Unit: 2873

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with J. Randall Beckers on 5/2/2005.

(See amendment to claims 7 and 8 on page 3)

Art Unit: 2873

R. Mack  
5/2/05

7. (*Examiner Amended*) A color lighting system, comprising:

a light source to emit light;

a color beam separator separating incident light emitted from the light source according to predetermined wavelength bands and transmitting the separated beams at different angles;

a first condensing lens condensing the separated beams; and

a scrolling unit changing travel paths of the condensed beams in color bars at different locations, and scrolling the changing of the travel paths of the condensed beams so as to periodically scroll the color bars, and wherein the scrolling unit comprises:

a first cylindrical array lens, including a plurality of adjacently disposed cylindrical lenses converging and diverging light, incident on the first cylindrical array lens, independently; and

a first driving unit providing a driving force to scroll light exiting the first cylindrical array lens and reciprocatingly-drive the first cylindrical array lens in a direction perpendicular to an optical axis of the incident light; and

wherein the first cylindrical array lens ~~droved~~ is driven by a first magnetic force.

R. Mack  
5/2/05

8. (*Examiner Amended*) The color lighting system of claim 7, wherein the scrolling unit further comprises:

a second cylindrical array lens, separated from the first cylindrical array lens, including a plurality of adjacently disposed cylindrical lenses converging or diverging light, incident on the second cylindrical array lens, independently; and a second driving unit providing a driving force to reciprocatingly-drive the second cylindrical array lens in a direction perpendicular to the optical axis of the light incident on the second cylindrical lens, and

wherein the second cylindrical array lens ~~droved~~ is driven by a second magnetic force.

*Reasons For Allowance*

2. Claims 2-4, 6-9, 11-16 and 18-31 are allowed.
3. The following is an examiner's statement of reasons for allowance: The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper.

Claims 2-4, 6, 11-16 and 18-31 are allowable based upon reasons provided in office action mailed 1/12/05.

The prior art fails to teach a combination of all the claimed features as presented in claim(s) 7-9, wherein the claimed invention comprises a first driving unit which drives a first cylindrical array lens by a first magnetic force, as claimed. Lambert (WO 00/60397) and the prior art do not provide a driving unit employing magnetic force to reciprocatingly drive a cylindrical array lens as claimed.

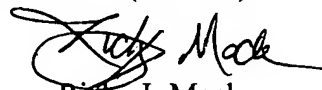
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky L. Mack whose telephone number is (571) 272-2333. The examiner can normally be reached on Monday-Friday (6:30 AM to 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2873

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ricky L Mack  
Primary Examiner  
Art. Unit 2873

RM  
May 2, 2005